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10/572,198

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Jimmy Ciesla Henningsen

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CORNING INCORPORATED

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CORNING, NY 14831

EXAMINER

IMAS, VLADIMIR

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | | |
|------------------------------|--------------------------------------|---|--|
| Office Action Summary | Application No. 10/572,198 | Applicant(s) HENNINGSEN, JIMMY CIESLA | |
| | Examiner VLADIMIR IMAS | Art Unit 2839 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 June 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

1. Claims 1 and 17 are objected to because of the following informalities: There is not correct description of structure of fixing first inner terminal inside first section. The examiner interprets description in correspondence with drawings (see fig. 1, 3).

Claim 1, line 15 and Claim 17, line 15, recite “the first bore and contacting the inner surface of the tubular portion of the body,” should be changed to - the first bore of the insulating tube and contacting the inner surface of the insulating tube--.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1 – 4, 6, 7, 9 – 12, 15 - 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Bruno (US 2,335,041).

Regarding claim 1, Bruno, fig. 1 – 3, discloses a coaxial connector comprising: a first section comprising: a unitary body 1 comprising: a tubular portion 11 disposed about a first axis, the tubular portion having an inner surface and an outer surface, the inner surface defining a first bore (not labeled) disposed about the first axis, and an

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angled portion 21 having an inner surface defining a second bore (not labeled) disposed about a second axis, the second axis intersecting the first axis; an insulating tube 3 disposed within the body and contacting the inner surface of the body, the insulating tube being disposed within the first bore and having an inner surface and an outer surface, the outer surface of the insulating tube contacting the inner surface of the tubular portion of the body; and a first inner terminal 6 disposed within the body, the inner terminal comprising a first portion 9 and a second portion 10, the first portion disposed within the first bore and contacting the inner surface of the insulating tube, and the second portion disposed within the second bore; and a second section mated with the first section, the second section comprising: a tubular shell 14 disposed about the second axis and comprising an inner surface; a tubular insulator 17 disposed within and contacting the tubular shell; and a second inner terminal 13 disposed within and contacting the tubular insulator, the second inner terminal comprising a first portion and a second portion (not labeled); wherein the angled portion of the body matingly engages the tubular shell; and wherein the second portion of the first inner terminal releasably contacts the first portion of the second inner terminal.

Regarding claim 2, Bruno discloses the first section is releasably attached to the second section.

Regarding claim 3, Bruno discloses the first inner terminal is capable of moving longitudinally along the second axis without losing contact with the second inner terminal.

Regarding claim 4, Bruno discloses the angled portion of the body threadedly engages the tubular shell.

Regarding claim 6, Bruno discloses the tubular shell comprises a locking ridge and the angled portion of the body comprises a receiving groove adapted to receive the locking ridge.

Regarding claim 7, Bruno discloses a nut (not shown) disposed on the outer surface of the tubular portion of the body.

Regarding claim 9, Bruno discloses the first inner terminal comprises a recess 12 adapted to receive a first end 13' of the second inner terminal.

Regarding claim 10, Bruno discloses a second end of the second inner terminal is adapted to receive a central conductor of a coaxial cable.

Regarding claim 11, Bruno discloses the first and second axes extend at an angle (α) relative to each other.

Regarding claim 12, Bruno discloses the angle (α) is substantially 90 degrees.

Regarding claim 15, Bruno discloses the second portion of the first inner terminal comprises a female end.

Regarding claim 16, Bruno discloses the first portion of the first inner terminal comprises a female end.

Regarding claim 17, Bruno discloses the combination of a first coaxial connector section 1 and a second coaxial connector section 14, wherein the first coaxial connector section comprises: a body 1 comprising: a tubular portion 11 disposed about a first axis,

the tubular portion having an inner surface and an outer surface, the inner surface defining a first bore (not labeled) disposed about the first axis, and an angled portion 21 having an inner surface defining a second bore (not labeled) disposed about a second axis, the second axis intersecting the first axis; an insulating tube 3 disposed within the body and contacting the inner surface of the body, the insulating tube being disposed within the first bore and having an inner surface and an outer surface, the outer surface of the insulating tube contacting the inner surface of the tubular portion of the body; and a first inner terminal 6 disposed within the body, the inner terminal comprising a first portion 9 and a second portion 10, the first portion disposed within the first bore and contacting the inner surface of the insulator tube, and the second portion disposed within the second bore; and wherein the second coaxial connector section is adapted to mate with the first section, the second coaxial connector section comprising: a tubular shell 14 disposed about the second axis and comprising an inner surface; a tubular insulator 17 disposed within and contacting the tubular shell; and a second inner terminal 13 disposed within and contacting the tubular insulator, wherein the angled portion of the body is adapted to matingly engage the tubular shell; and wherein the first inner terminal is adapted to releasably contact the second inner terminal.

Regarding claim 18, Bruno discloses that no dielectric material surrounds the second end of the second inner terminal.

Regarding claim 19, Bruno discloses a second end of the second inner terminal is adapted to receive a central conductor of a coaxial cable, and no dielectric material surrounds the second end of the second inner terminal.

Regarding claim 20, Bruno discloses the insulating tube does not contact the tubular insulator.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bruno.

Regarding claim 5, Bruno reversely discloses the angled portion of the body comprises a locking ridge (flange like upper portions of the second tubular body) and the tubular shell comprises a locking groove (corresponding with locking ridge) adapted to receive the locking ridge. At the time the invention was made, it would have been to a person of ordinary skill in the art to reverse essential parts of the connector. It has been held that a mere reversal of the essential working parts of a device involves only routine skill in the art. *In re Einstein*, 8 USPQ 167.

6. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bruno in view of Thommen et al. (US 4,881,912).

Regarding claim 8, Bruno discloses all the limitations except a conical guide disposed within the tubular shell and contacting the second inner terminal. Thommen et al., fig. 1, discloses a conical guide (at the second end 28C of conductor pin) disposed

within the tubular shell and contacting the second inner terminal. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to provide Bruno's connector with Thommen's et al. conical guide disposed within the tubular shell to provide proper navigation for connected external terminal.

7. Claims 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bruno in view of Brishka (US 3,432,798).

Regarding claim 13, Bruno discloses all the limitations except the first portion of the first inner terminal comprises a male end. Brishka, fig. 1, discloses the first portion of the first inner terminal comprises a male end. At the time the invention was made, it would have been to a person of ordinary skill in the art to provide the first portion of the Bruno's first inner terminal with male end as Brishka teaches to make it able to except female contact.

Regarding claim 14, Bruno discloses all the limitations except the second portion of the first inner terminal comprises a male end. Brishka, fig. 1, discloses the first portion of the first inner terminal comprises a male end. At the time the invention was made, it would have been to a person of ordinary skill in the art to provide the second portion of the Bruno's first inner terminal with male end as Brishka teaches to make it able to except female contact.

Response to Arguments

8. Applicant's arguments with respect to claims 1 and 17 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to VLADIMIR IMAS whose telephone number is (571)272-8288. The examiner can normally be reached on 8:00 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, T. Patel can be reached on 571-272-2098. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

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For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/V. I./
Examiner, Art Unit 2839,
7/15/2008.

/T C Patel/
Supervisory Patent Examiner, Art Unit 2839